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TITLE: Seat for motor vehicle with built-in loudspeakers

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PATENT-FAMILY:

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: FR 2768099A

BASIC-ABSTRACT:

NOVELTY - The speakers are mounted in the top of the seat back enabling handsfree use of mobile telephone.

DETAILED DESCRIPTION - The vehicle seat comprises a squab (2) and a back (3). The back extends up to a top surface (4) which also provides the base for supporting a head restraint (5) on two vertical posts (7). The head restraint may be adjusted in height to suit the occupant. Two loudspeakers (8) are mounted in the top surface of the back of the seat, with their diaphragms directed upwards towards the ears (9) of the occupant. The loudspeakers are sufficiently far apart that when the head restraint is moved to its lowest position it does not obstruct the speaker outputs. Each speaker may have a diameter which is less than 5 cm.

USE - Provision of handsfree operating system for mobile telephone in vehicle.

ADVANTAGE - Enables clear delivery of sound to occupant without impeding full

safe operation of head restraints.

DESCRIPTION OF DRAWING(S) - The figure shows the vehicle seat with speakers mounted beneath the occupant's ears.

Speakers 8

Seat back 3

Headrest 5

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: SEAT MOTOR VEHICLE BUILD LOUDSPEAKER

DERWENT-CLASS: Q14 Q17 V06 W01 W04 X22

EPI-CODES: V06-A; V06-G09; W01-C01A7; W01-C01D3B; W01-C01G2; W04-S01A;
X22-J03A; X22-X02B;

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Seat for motor vehicle with built-in loudspeakers

Description of FR2768099

Sit of vehicle equipped with loudspeakers.

The present invention relates to the seats of vehicles equipped with loudspeakers, in particular for vehicles equipped with radiotelephones "hands free".

More particularly, the invention relates to a seat of vehicle comprising a base and a file, this file extending upwards starting from base to a higher part, this seat comprising at least a loudspeaker laid out in the vicinity of the site of the head of the user, which allows a good listening of the sounds coming of the aforesaid loudspeaker by the aforementioned user, and a certain discretion with respect to the other occupants of the vehicle.

Document GB-A-2 102 656 described an example of such a seat, in which two loudspeakers are integrated in the head-rest.

The seat describes in this document presents however the disadvantage of requiring the passage of electric wire of power supply of the loudspeakers in the pins of support of the head-rest, which notably complicates the assembly of the aforesaid head-rest and increases the cost price of the seat, in particular if the position of the head-rest must be able to be regulated.

Moreover, when the head-rest of such a seat is removable, the removal of this head-rest is complex, insofar as it is necessary to disconnect the loudspeakers at the same time as the head-rest is removed, or else connections of the loudspeakers would be damaged.

Lastly, the integration of the loudspeakers in the head-rest is problematic, insofar as, on the one hand, it should not be made with the detriment functions of safety provided by the head-rest, and on the other hand, the loudspeakers integrated in the head-rest are especially visible and can harm the aesthetic aspect of the seat if necessary.

The purpose of the present invention is in particular to mitigate these disadvantages.

To this end, according to the invention, a seat of the kind in question is primarily characterized in that the loudspeaker is laid out in the higher part of the file while being directed upwards.

Thanks to these provisions, the passage of electric wire of power supply of the loudspeaker does not imply any complex assembly, and one preserves nevertheless all the advantages of the loudspeakers laid out in the head-rest.

Moreover, when the head-rest of such a seat is removable, the removal of this head-rest is simple and is not likely to damage connections of the loudspeaker.

Lastly, the loudspeaker installation of in the higher part of the file does not pose any problem with respect to the safety of the passenger of the seat, and the loudspeaker thus established is less visible than when it is established in the head-rest.

In preferred modes of realization of the invention, one can possibly have recourse moreover to the one and/or the other of the following provisions

- the higher part of the file carries a head-rest and includes two loudspeakers which are laid out on both sides of this head-rest while being directed upwards
- the head-rest is adjustable in height and is adapted to be placed in a low position where it touches the higher part of the file, the loudspeakers sufficiently being shifted on both sides head-rest not to be covered by this head-rest when it is in low position
- the loudspeaker has a diameter lower than 5 cm.

Other characteristics and advantages of the invention will appear during the following description of one of

► its embodiments, data as an example nonrestrictive, the joined drawings.

On the drawings

- figure 1 is a sight in prospect for a seat according to a form for realization for the invention,
- and figure 2 is a sight of top of the seat of figure 1.

On the various figures, the same references indicate identical or similar elements.

Figures 1 and 2 represent a seat of vehicle 1, in particular a seat before motor vehicle.

This seat includes/understands a base 2 and one file 3 which extends upwards starting from base 2, until a higher part 4 which carries a head-rest 5 defining a site for head 6 of a user of the seat.

This head-rest 5 can be assembled on the higher part 4 of the file by means of two vertical pins 7, or of another system allowing to regulate the height of the head-rest enters, on the one hand, a high position, and on the other hand, a low position where the aforementioned head-rest touches the higher part 4 of the file.

If necessary, pins 7 can also make it possible to remove head-rest 5.

In addition, in the higher part 4 of the file, two loudspeakers 8 are integrated which level on the surface of the aforementioned higher part on both sides of head-rest 5, these loudspeakers 8 being directed to the top in the vicinity of the site of head 6 of the user, so that the sounds emitted by the aforementioned loudspeakers can arrive appreciably directly at ears 9 of the user, according to the direction represented by arrows 10.

Loudspeakers 8 have preferably a diameter D lower than 5 cm, in order to be able to be integrated easily in the higher part 4 of the file, and the aforementioned loudspeakers are sufficiently shifted on both sides head-rest 5 not to be covered by this head-rest when it is in low position.

Loudspeakers 8 are preferably connected to a system of radiotelephone of the type "free hands" (not represented), but they can also be connected to any other audio system such as a car radio, a cassette player, an optical disk player, etc.

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